

Fig.1

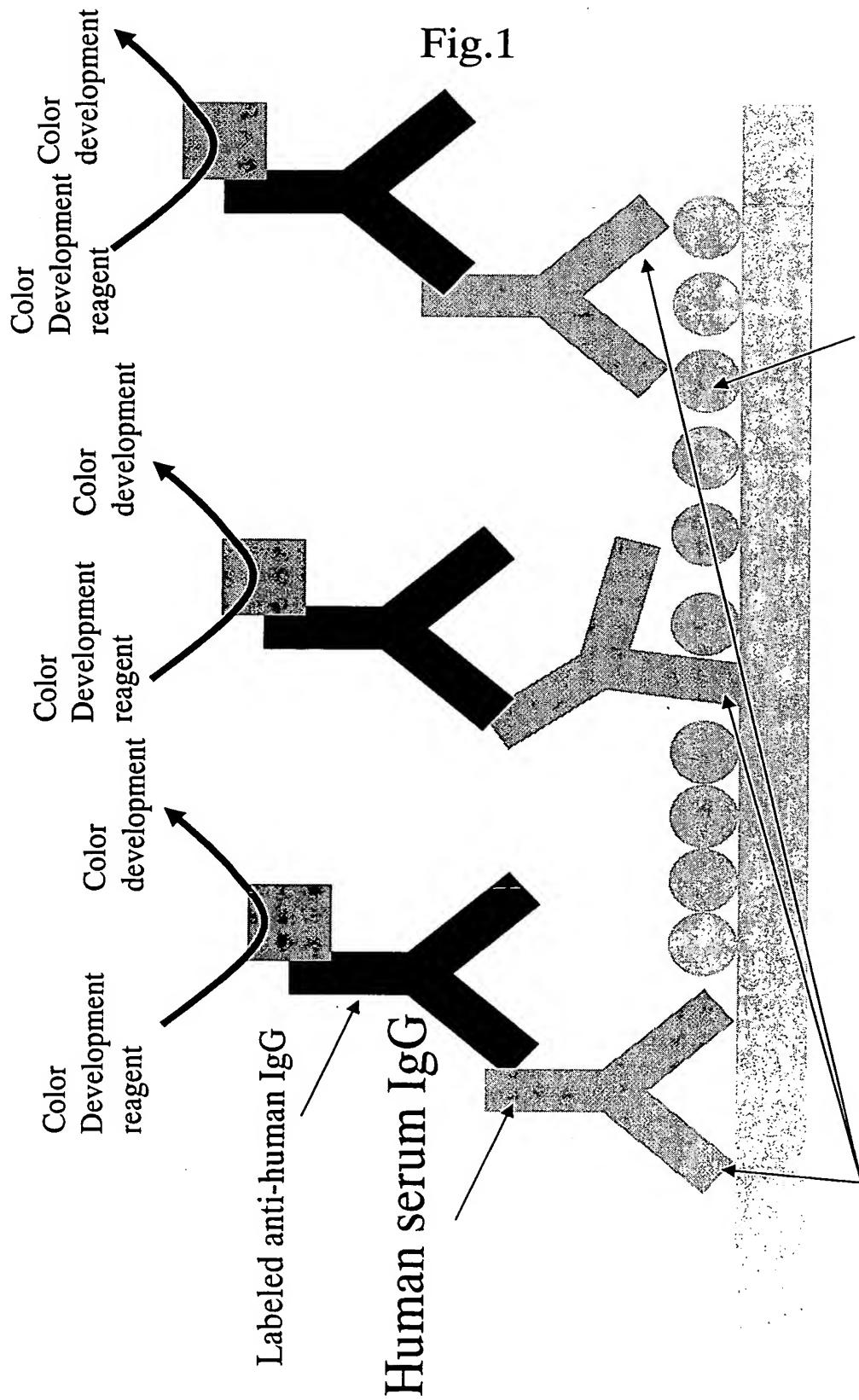
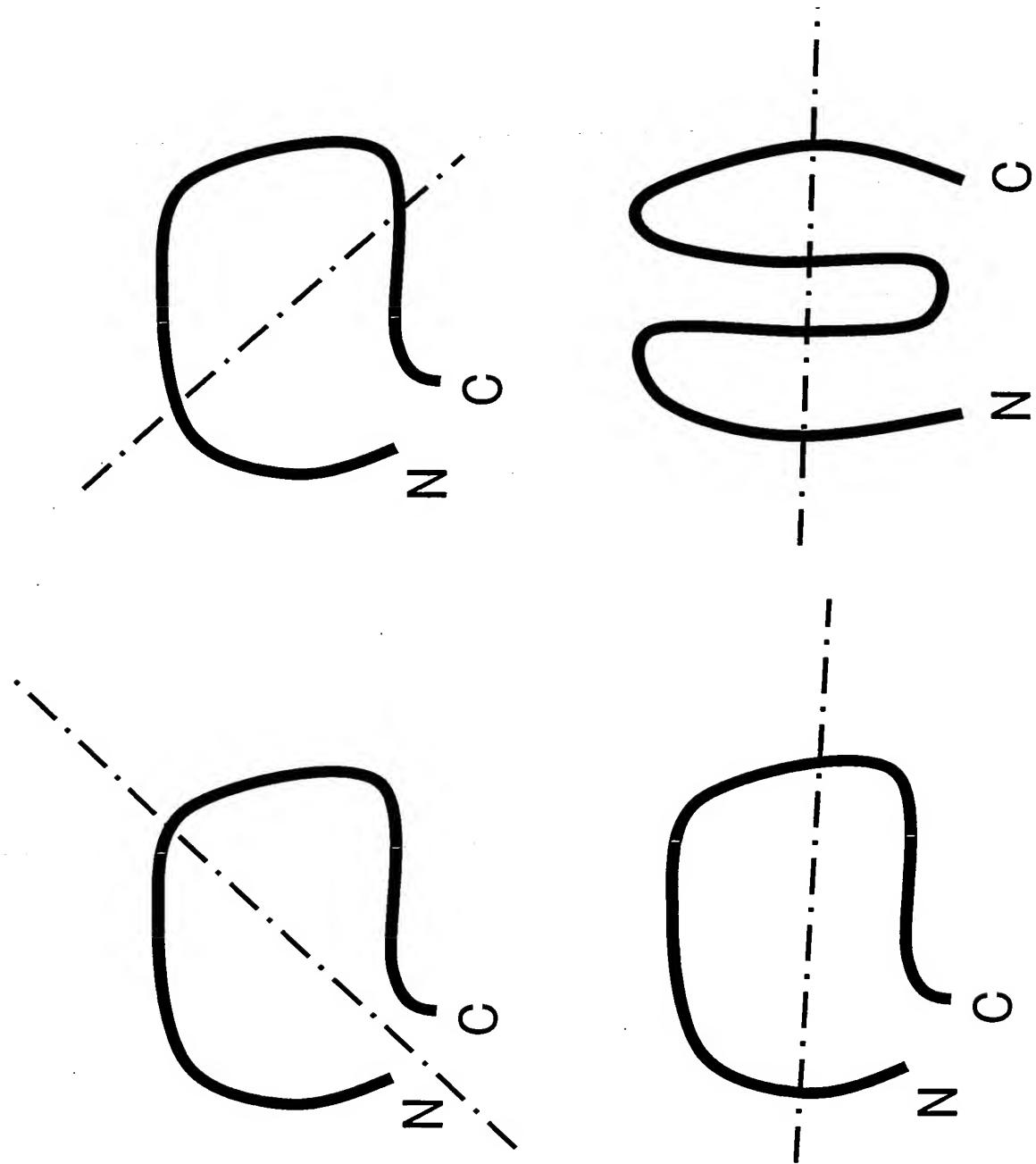
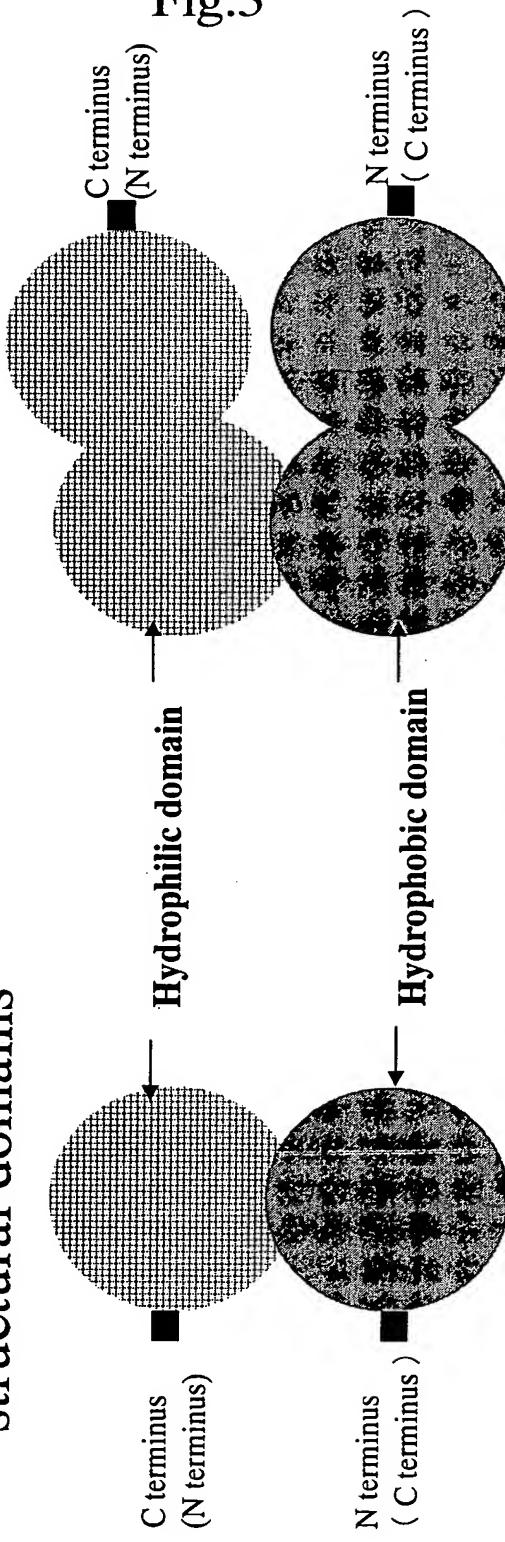


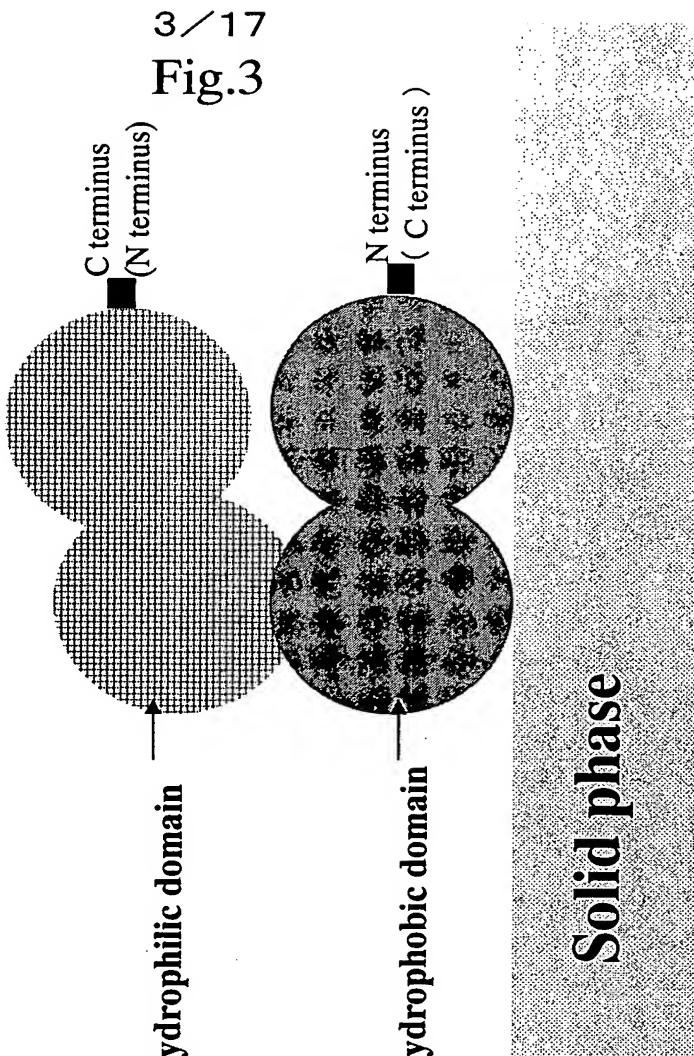
Fig.2



Composed of two
structural domains



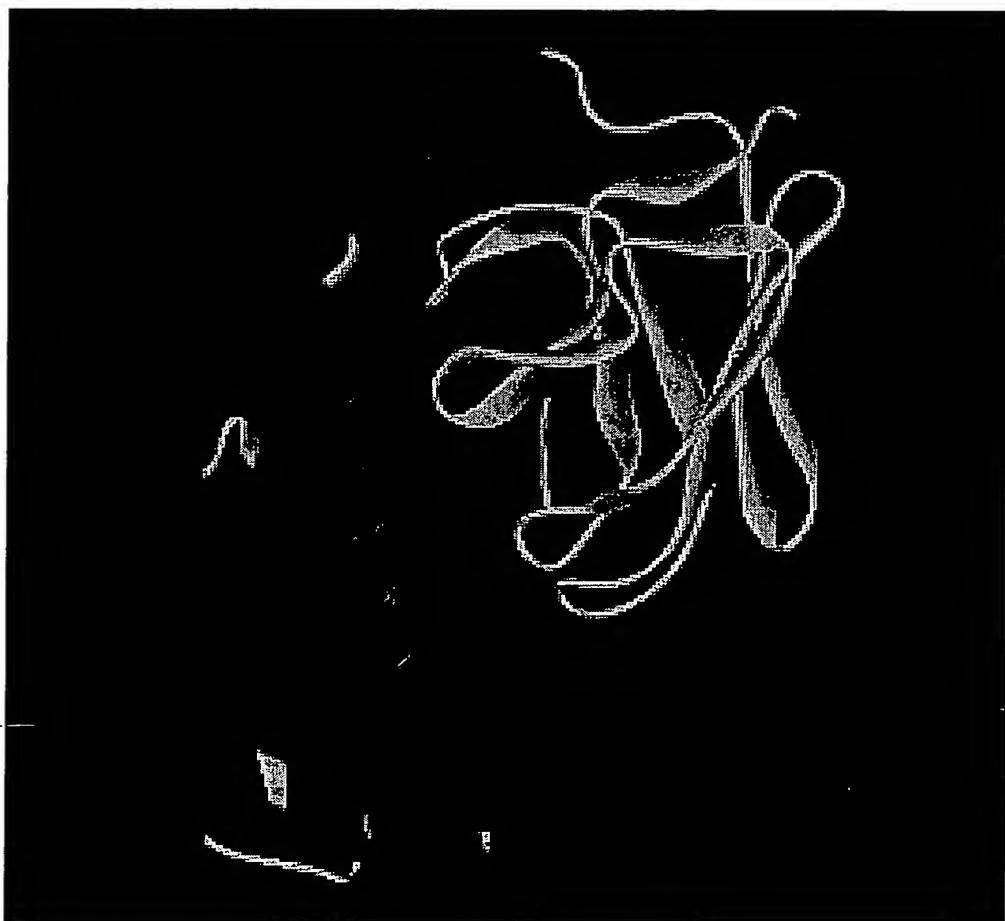
Composed of multiple
structural domains



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Fig.3

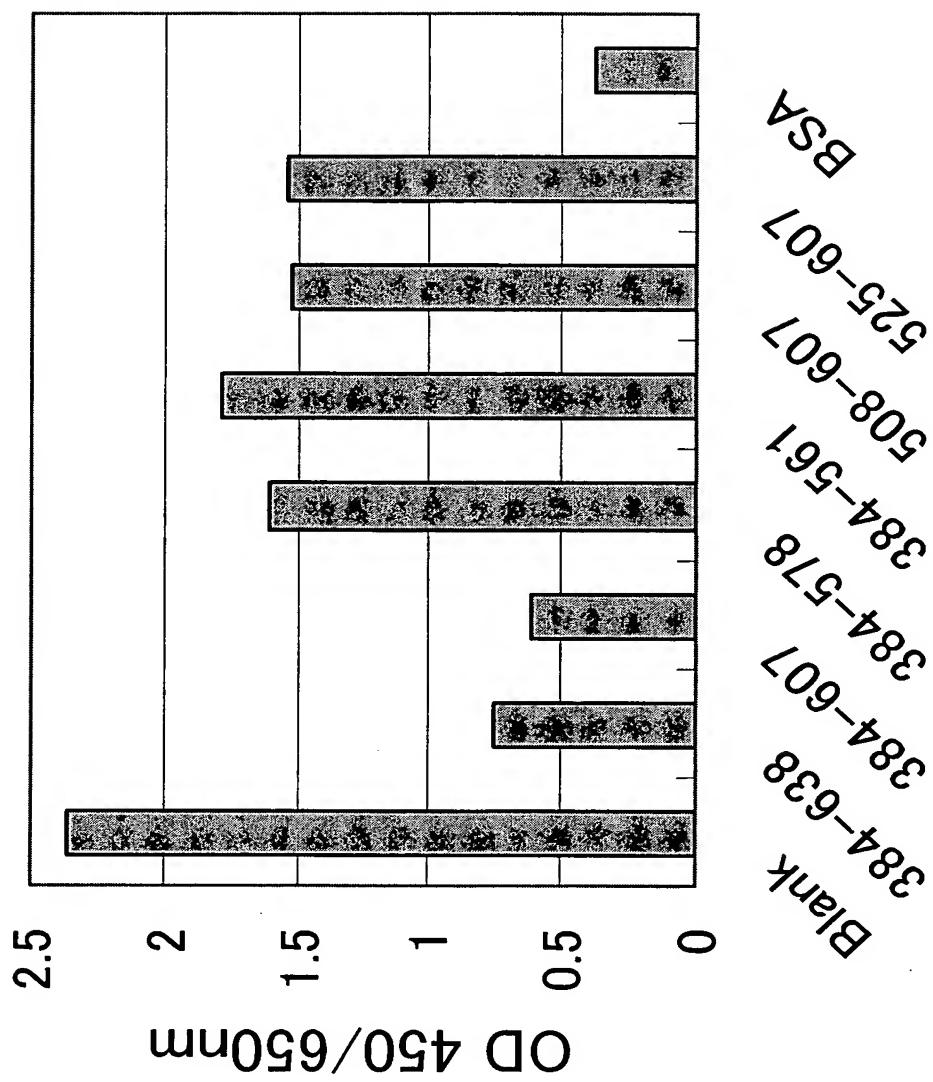
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Fig.4



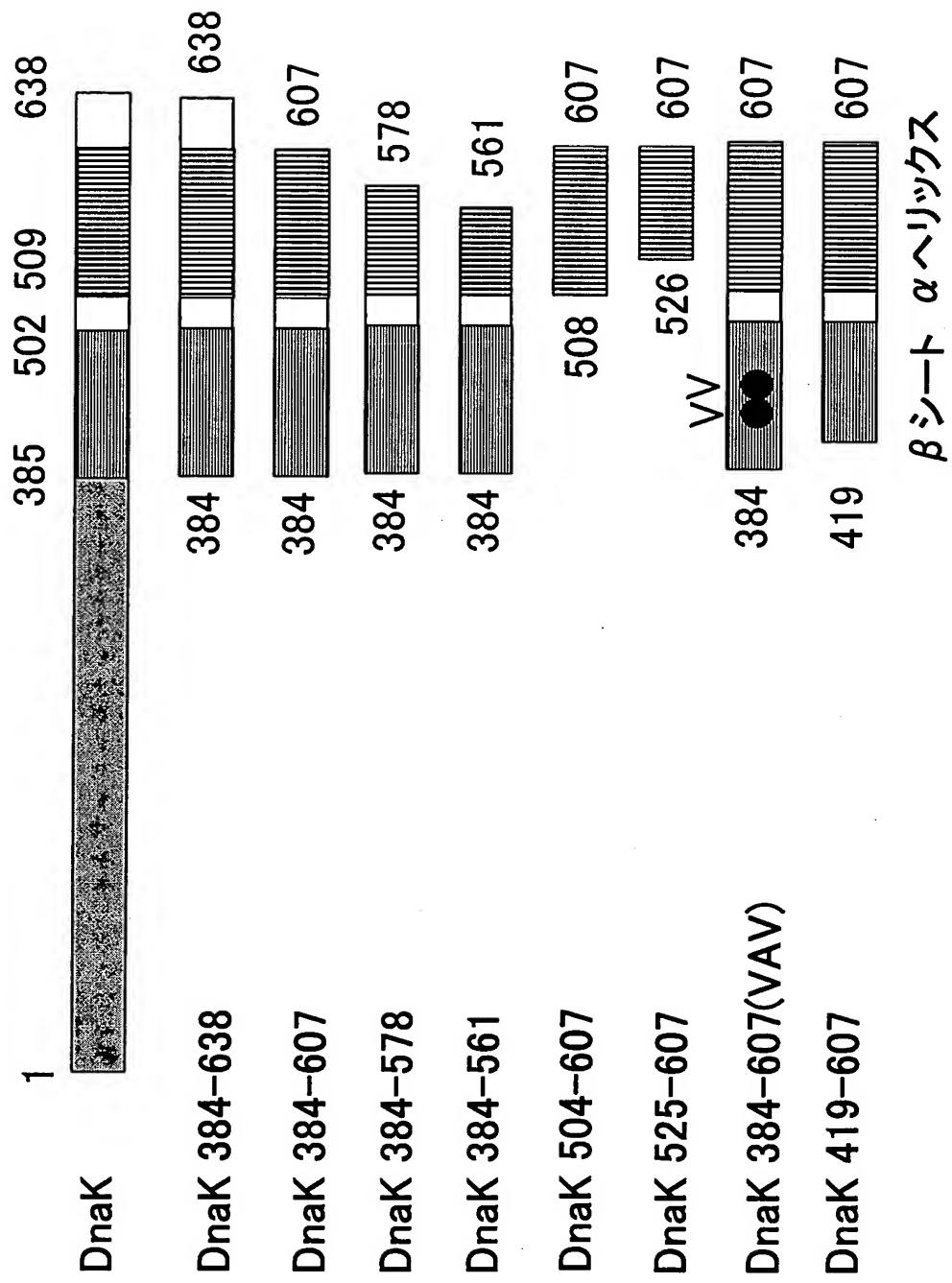
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Fig.5



ATPase domain

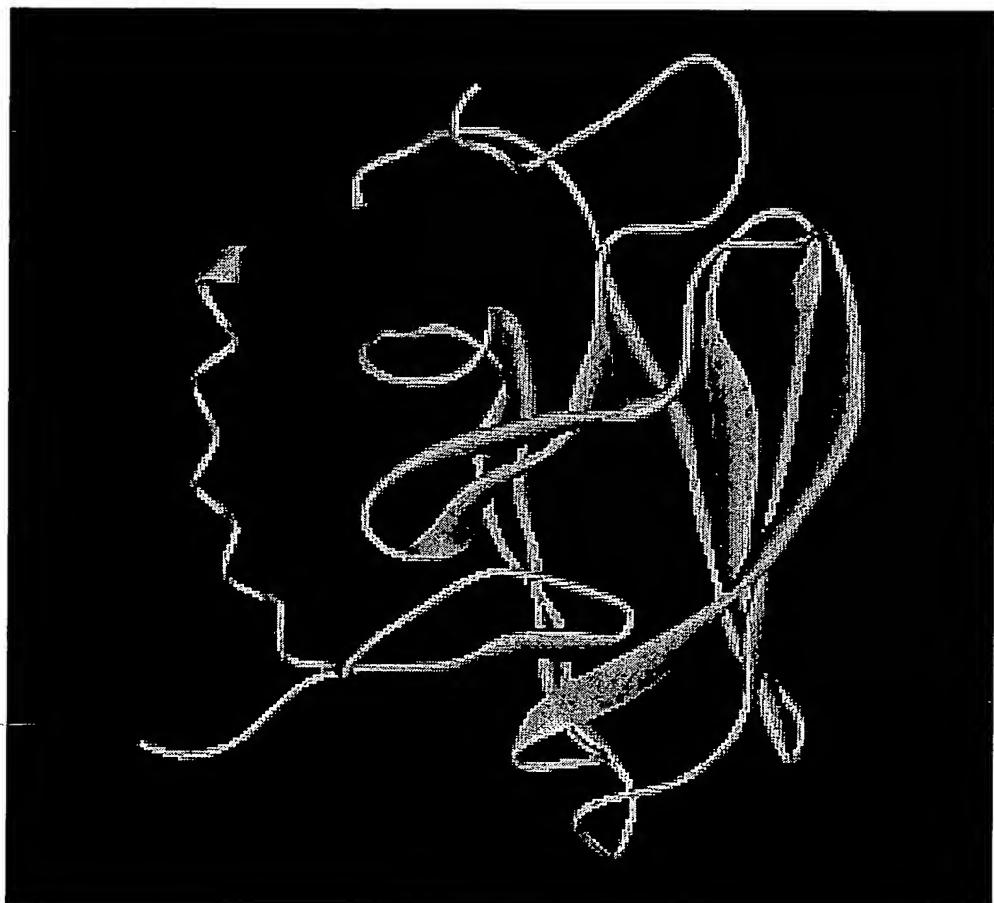
Substrate binding domain



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Fig.6

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Fig.7



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Fig.8

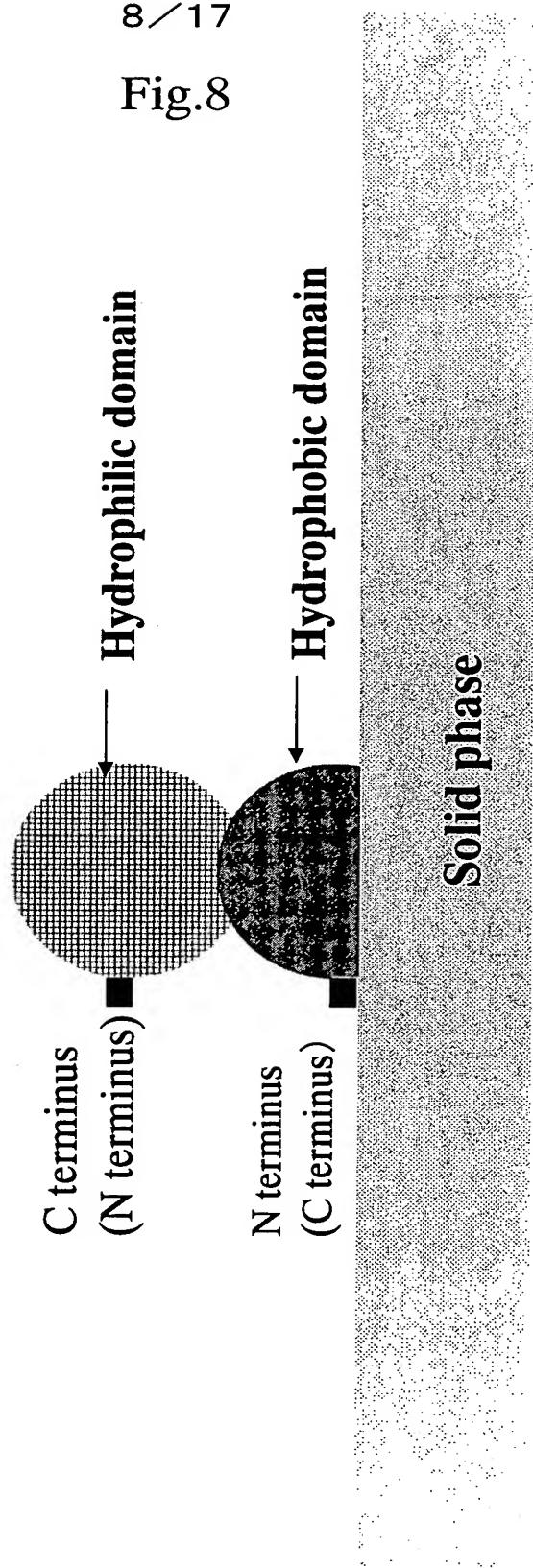


Fig.9

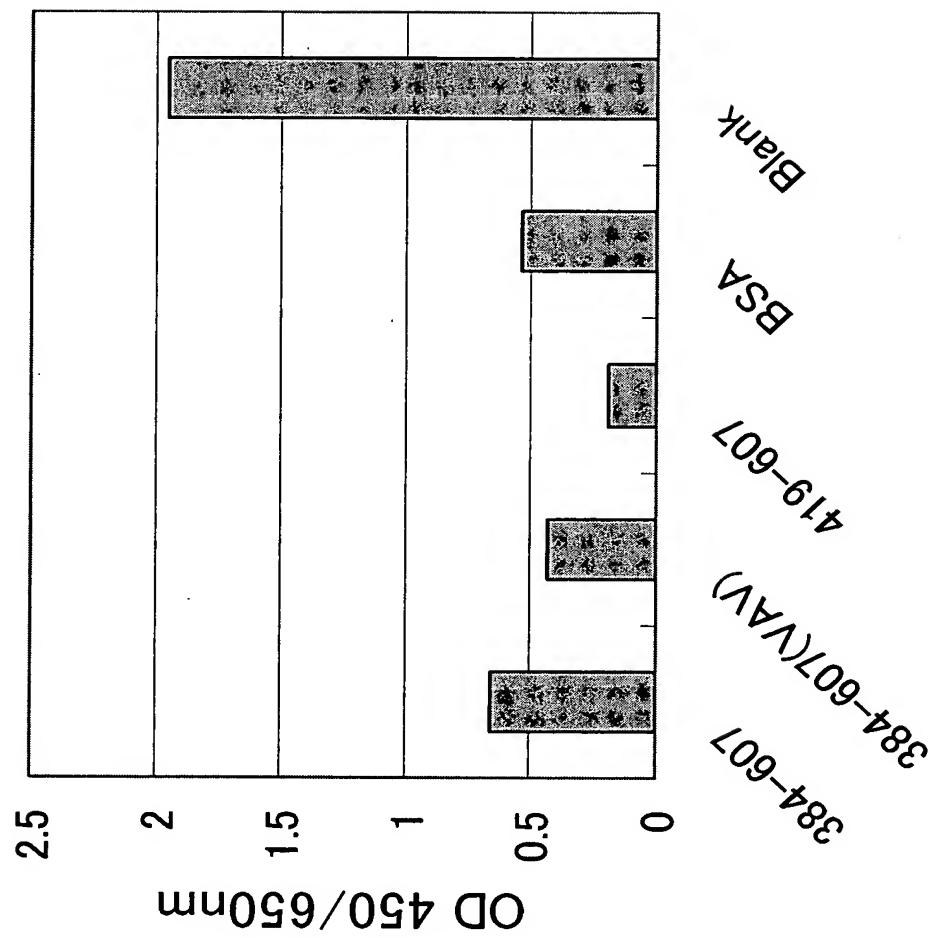


Fig.10

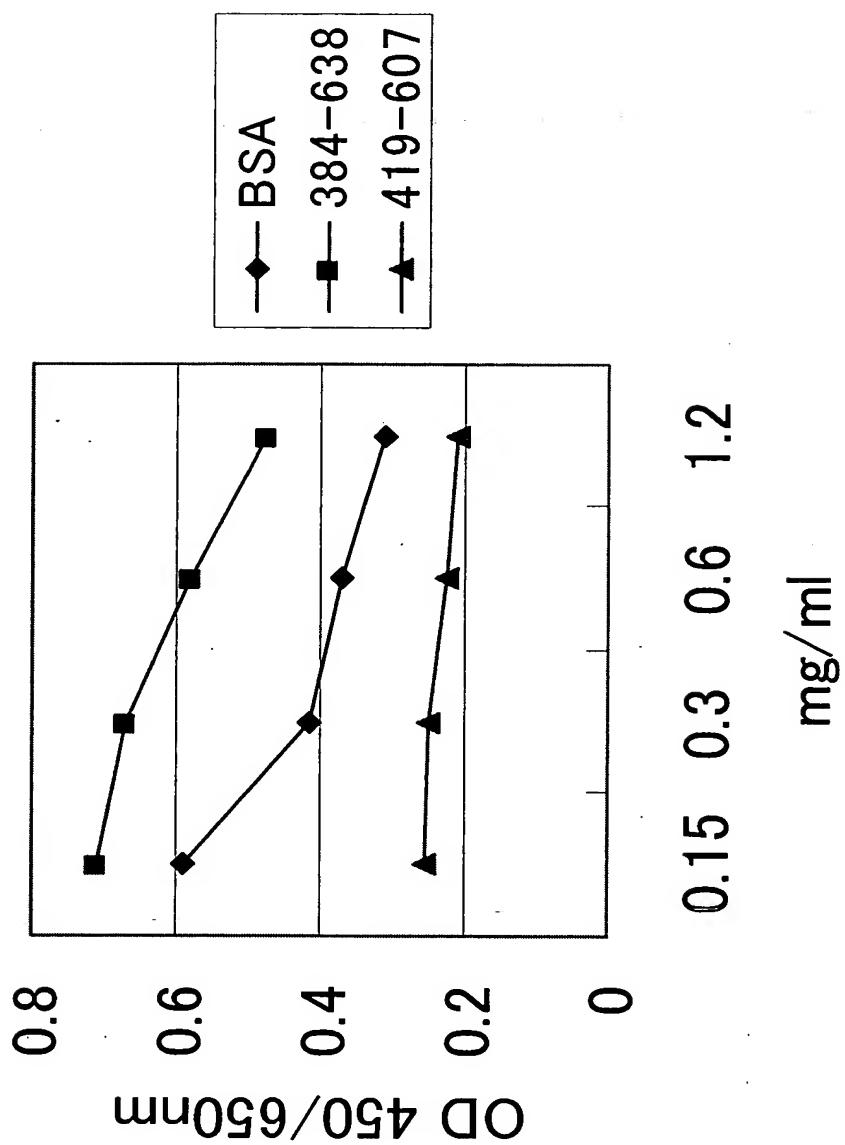


Fig.11

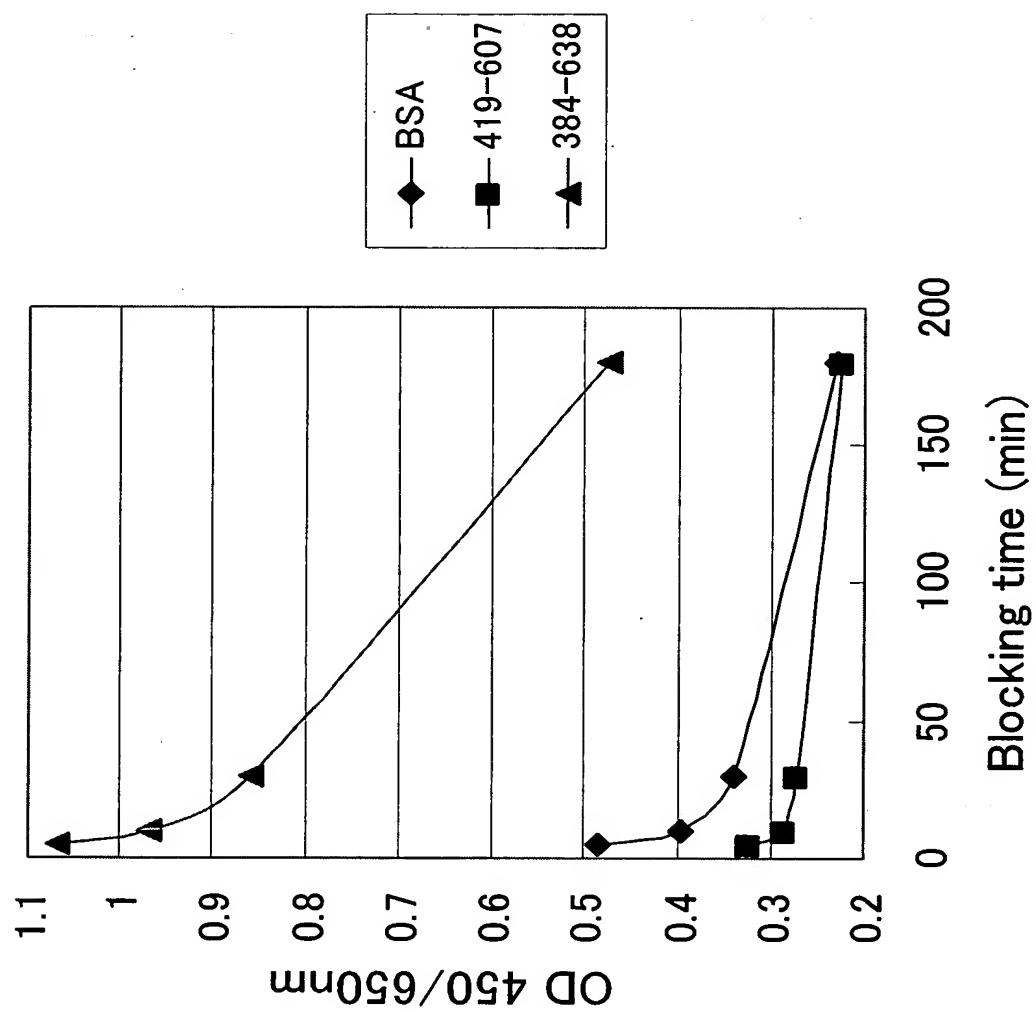


Fig.12

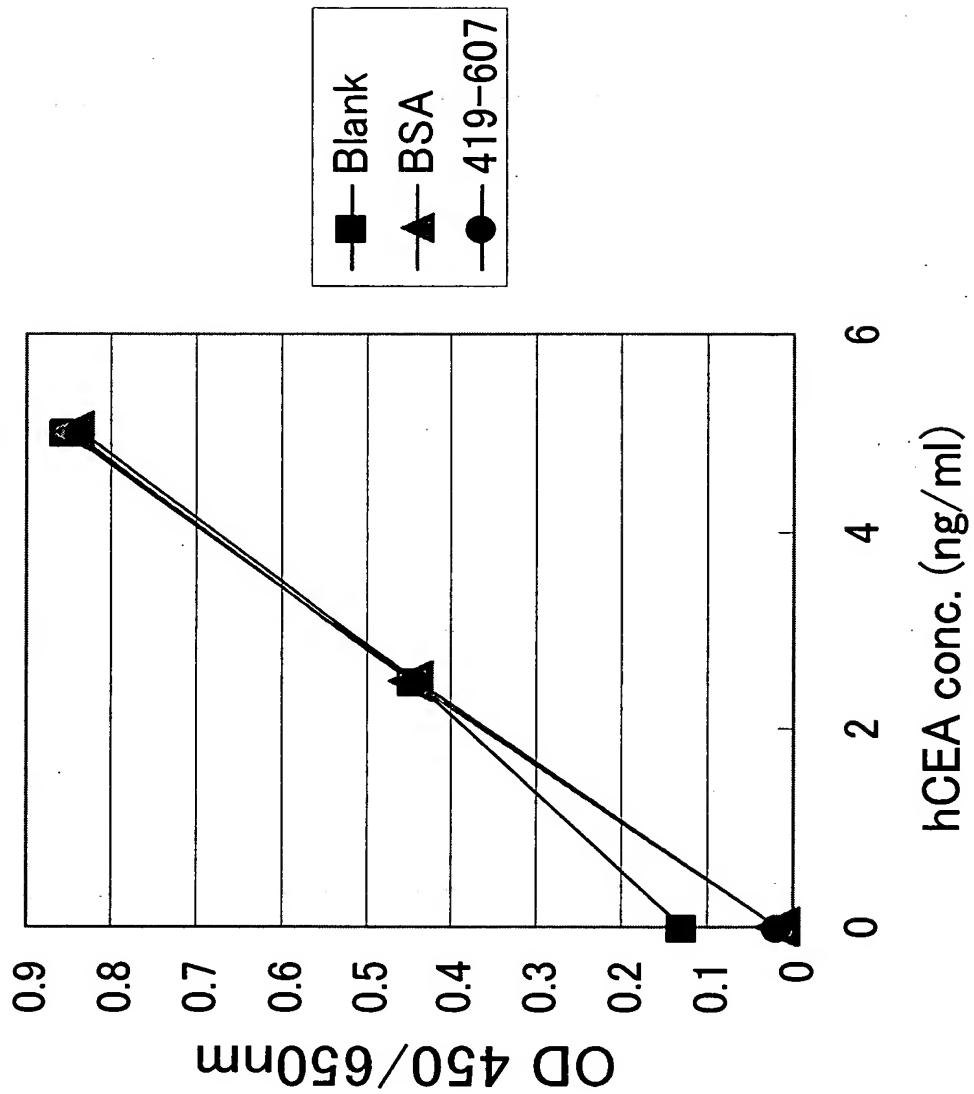


Fig.13

	BSA	α Casein	Lipase
Hydrophilic amino acid content	0.37	0.34	0.21
Hydrophobic amino acid content	0.41	0.45	0.51
Hydrophilic/hydrophobic rate	0.90	0.76	0.41
Blocking ability	Good	Good	Poor

Fig.14

	BSA				α Casein				Lipase				DnaK 384-607
	N terminal side	C terminal side	Full length	N terminal side	C terminal side	Full length	N terminal side	C terminal side	Full length	N terminal side	C terminal side	Full length	
Hydrophilic amino acid content	0.40	0.35	0.37	0.37	0.30	0.34	0.22	0.20	0.21	0.25	0.37	0.29	
Hydrophobic amino acid content	0.40	0.42	0.41	0.42	0.47	0.45	0.57	0.45	0.51	0.50	0.41	0.45	
Hydrophilic/hydrophobic rate	1.00	0.83	0.90	0.88	0.64	0.76	0.39	0.44	0.41	0.50	0.90	0.64	
Δ		0.17		0.24			0.05			0.40			

Fig.15

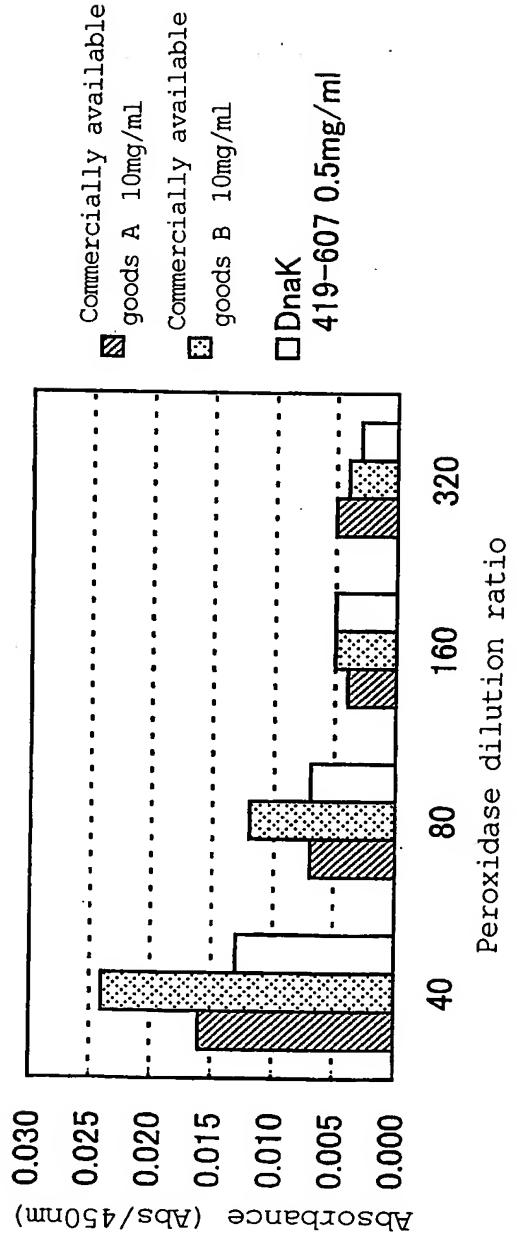
Example 7 Comparison of blocking effects of
(native) DnaK fragment without His tag and BSA

PEO131 Dilution ratio	High concentration			Low concentration		
	Commercially available goods A	Commercially available goods B	DnaK 419-607	Commercially available goods A	Commercially available goods B	DnaK 419-607
	10mg/ml	10mg/ml	0.5mg/ml	2mg/ml	2mg/ml	0.1mg/ml
40	0.016	0.024	0.013	0.068	0.094	0.086
80	0.007	0.012	0.007	0.036	0.046	0.069
160	0.004	0.005	0.005	0.017	0.021	0.024
320	0.005	0.004	0.003	0.012	0.013	0.014

Values in Table: Absorbance at 450 nm (Abs)

Fig.16

Comparison of blocking ability
with that of BSA (High concentration)



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Fig.17

